

20th Annual
*Southern Conservation Tillage
Conference for Sustainable Agriculture*

“PARTNERS FOR A WHOLESOME FOOD SUPPLY”

The continuing purpose of this annual conference is to promote the exchange of information pertaining to conservation tillage management, equipment, pest control, crop improvement, and multiple cropping systems among farmers, educators, researchers, agribusiness, government agencies, and farm groups for greater sustainable agriculture. The conference will include:

- Invited speakers among the *‘partners who are involved in production of a wholesome food supply’*
- Volunteer papers (oral and/or poster) on all aspects of soil and crop management as related to conservation tillage
- Tours and demonstrations at research fields and three local farms

Conference Coordinators: Dr. Raymond N. Gallaher and Dr. David L. Wright

Program Chairman: Dr. Raymond N. Gallaher

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Administrative Advisors: Dr. James L. App, Dr. Everett R. Emino, and Dr. Joseph C. Joyce

Program

Tuesday, 24 June 1997

8:00am **Registration** (to 5:00pm) (*Conference Center Lobby*)

8:00am **Posters and Display Set-up** (to 12:00pm) (*DeSoto Room*)

Invited Speaker Forum:

Partnership in Production of a Wholesome Food Supply

(San Marcos Ballroom)

Moderator: **Dr. Jerry M. Bennett**

1:00pm Welcome • **Dr. Elizabeth D. (Betty) Capaldi**

1:05pm *Role of IFAS* • **Dr. Joseph C. (Joe) Joyce**

- 1:25pm *Role of USDA-NRCS* - **Mr. Niles Glasgow**
- 1:45pm *Role of Florida Farm Bureau Federation* - **Mr. Pat Cockrell**
- 2:05pm *Role of Soil and Water Conservation of the Office of Agricultural Water Policy* - **Mr. David Vogel**
- 2:25pm *Role of Water Management Districts* - **Mr. Jerry Scarborough**
- 2:45pm *Role of Industry in Conservation Tillage and Sustainable Agriculture* - **Dr. Robert G. (Bob) Palmer**
- 3:05pm *View Posters/Refreshment Break* (DeSoto Room, See pp 6-7 for listings)
- Moderator: Dr. Randall B. Brown**
- 3:20pm *Practice of Conservation Tillage* - **Dr. Larry Hawf**
- 3:40pm *Practice of Sustainable Agriculture* - **Dr. E.T. York**
- 4:00pm *Recycling Urban and Agricultural Organics in Fields and Forests* - **Dr. Wayne H. Smith**
- 4:20pm *Use of Animal Manure in Production of Wholesome Food* - Dr. Harold H. (Jack) Van Horn, Jr. and **Patrick W. Joyce**
- 4:40pm *Organic Farming Practices* - **Dr. James J. (Jim) Ferguson** and Mr. Marty Mesh
- 5:00pm *Final Comments*
- 5:05pm *Poster Presentations, Displays, and Reception* (to 7:00pm) (DeSoto Room, See pp 6-7 for listings)
- 7:00pm *Steering Committee and Guest Dinner and Business Meeting* (to 8:30pm) (Granada Room)

Wednesday, 25 June 1997

Comment: This day is dedicated to voluntary oral and poster presentations by participants, especially from the South. Historically, a wide range of topics are covered related to the success of conservation tillage including: pest management (weeds, nematodes, insects, diseases), cropping systems, soil properties, fertilization, new crops and/or new cultivar releases, equipment, etc., University research and extension experts, USDA staff, farmers, industry representatives, and others participate in the program to provide a broad spectrum of updated information which involves many of the partners in the production of a wholesome food supply.

- 7:30am *Registration* (Conference Center Lobby)
- 8:00am *Morning Refreshments* (DeSoto Room)

Oral and Poster Presentations: *Partnership in Information Exchange* (San Marcos Ballroom)

- Moderator: Dr. David L. Wright**
- 8:20am *Welcome* - **Dr. Christine Taylor Stephens**
- 8:30am KEYNOTE SPEAKER - *Evolving Communication to Inform and Educate* - Ricky W. Telg and **Larry J. Connor**
- 9:00am *Converting CRP to Cropland in Oklahoma* - **Jim Stiegler**
- 9:15am *Nitrogen Fertilization of No-Tillage Corn Using Precision Farming Technology* - R. Barbosa, J. Wilkinson, W. Hart, **D. D. Tyler**, P. Denton, and J. Bradley
- 9:30am *Obstacles to Sod-Seeding Winter Annual Forages in Mississippi* - **David J. Lang**, R. Elmore, and B. Johnson
- 9:45am *Telogia Creek Conservation Tillage Project* - **Ben F. Castro** Bobby R. Durden, Henry G. Grant, Joel C. Love, and F. Johnson

- 10:00am **View Posters/Refreshment Break** (DeSoto Room, See pp. 6-7 for listings)
- 10:45am *Cover Crop and Herbicide Burndown Effects on No-Till, Water-Seeded Rice* - **Patrick Bollich**
- 11:00am *Methods for Managing Nematodes in Sustainable Agriculture* - **Robert McSorley** and Raymond N. Gallaher
- 11:15am *Weed Control for Corn Planted into Sod* - **Malcome L. Broome** and Grover B. Triplett
- 11:30am *Value of Roundup Ready Technology in One-Pass Planted Soybeans* - **David L. Wright**, Pawel J. Wiatrak, B. J. Kidd, and J. Prihota
- 11:45am *Questions for Morning Speakers*
- 12:00pm **Lunch** (on your own)
- Moderator: Dr. Robert McSorley**
- 1:00pm *Economic and Agronomic Evaluation of Selected Wheat Planting Methods in Arkansas* - **Terry C. Keisling**, Carl Dillon, Michael Oxner, and Paul Counce
- 1:15pm *Corn Forage Yield and Cost of Silage Production from Use of Yard Waste Compost* - **Peter E. Hildebrand**, Raymond N. Gallaher, and Robert McSorley
- 1:30pm *Effect of Low Input Technology on Tropical Corn Production in Small-Scale Farming Systems* - **Cassel S. Gardner**, C. H. McGowan, R. Carter, C. Brasher, and G. Quelling
- 1:45pm *Tillage Effects on Cotton and Peanut Double Cropped after Small Grain* - James E. Hook, C. C. Dowler, A. W. Johnson, and H. S. Sumner
- 2:00pm *Reducing Surface Disturbance with No-Till and Low-till Systems for Cotton in the Mid-South* - Gordon R. Tupper and Harold R. Hurst
- 2:15pm *Influence of Starter Fertilizer on Strip-Till Cotton* - **Pawel J. Wiatrak**, David L. Wright, J. A. Pudelko, and Brian Kidd
- 2:30pm *View Posters/Refreshment Break* (DeSoto Room, See pp. 6-7 for listings)
- 3:00pm *Strip-Till Versus Conventional Tillage on Yield and Petiole-Sap Nitrate of Cotton and Soil Nitrate* - **Fredrich M. Rhoads**, David L. Wright, Pawel J. Wiatrak, and S. Reed
- 3:15pm *Cover Crops and Tillage Practices for Cotton Production on Alluvial Soils in Northeast Louisiana* - **Merritt Holman**, A. B. Coco, and R.L. Hutchinson
- 3:30pm *Nitrogen Management For No-Tillage Cotton* - **Jac J. Varco**, John M. Thompson, and Stan R. Spurlock
- 3:45pm *Use of New Genotypes of Small Grain and Soybean in Conservation Tillage Systems* - **Ronald D. Barnett**, Ann R. Blount, and David L. Wright
- 4:00pm *Wheat Residue in Arkansas Double-Cropped Soybeans* - **Caleb Oriade**, Carl Dillion, and Terry C. Keisling
- 4:15pm *No-Till Production of Irish Potato on Raised Beds* - **Ronald Morse**
- 4:30pm *Question for Afternoon Speakers*
- 5:00pm *Adjourn*
- 5:00pm *Removal of Posters and Displays. (Please Note: All posters and displays must be removed by 10:00 pm.)*

Posters

1. *Cover Crops for Weed Control in Conservation-Tilled Cotton* - **M. G. Patterson**, Wayne Reeves, and B. E. Gamble
2. *Cover Crops for Weed Control in Conservation-Tilled Soybeans* - **Wayne Reeves**, M. G. Patterson, and B. E. Gamble
3. *Tillage and Cover Crops Affecting Cotton Growth and Yield and Soil Organic Matter* - **Donald J. Boquet**, R. L. Hutchinson, W. J. Thomas, and R. E. Brown
4. *Winter Crop Effect on Double-Cropped Cotton Grown With and Without Irrigation* - **Phil J. Bauer** and J. R. Frederick
5. *Use of Temik 15G and Telone II to Manage Reniform Nematodes in Strip Till Cotton* - **Jimmy R. Rich**, R. A. Kinloch, S. K. Barber, and D. L. Wright
6. *Tillage and Soil Insecticide Effects on Dryland Corn Yields* - **John E. Matocha**, S. G. Vacek, and F. L. Hopper
7. *No-Till Cotton: Redvine Control on Clay Soil* - **Harold R. Hurst**
8. *Soybean Yield Response to Tillage and Landscape Position* - **Joseph R. Johnson**, K. C. McGregor, and R. F. Cullum
9. *Timing of Deep-Tillage for Wheat-Soybean Double Crop in the SE Coastal Plain* - **W. J. Busscher**, P. J. Bauer, and J. R. Frederick
10. *Alternative Arkansas Rotation and Tillage Practices* - **Carl Dillon**, T. C. Keisling, Bob Riggs, and L. R. Oliver
11. *Influence of Conservation Tillage Practices on Grain Yield and Nitrogen Status of Corn Grown on an Alluvial Clay in Louisiana* - **H. J. "Rich" Mascagni**, R. L. Hutchinson, B. R. Leonard, and D. R. Burns
12. *Effect of Cover Crops as a Nutrient Source for Tropical Corn on Small Farms* - **C. S. Gardner**, C. H. McGowan, R. Carter, and H. Grant
13. *Lupin Hay as an Organic Fertilizer for Production of 'White Acre' Cowpea* - **C. E. Wieland**, J. A. Widmann, and R. N. Gallaher
14. *Assessment of Soil Incorporated Crimson Clover Hay as an Organic Fertilizer Source in the Production of Bush Bean* - **B. L. Wade**, S. J. Rymph, and R. N. Gallaher
15. *Effects of Farm Management on Soil Quality* - **E. Huntley**, M. E. Swisher, and M. Collins
16. *Establishing the Value of the Phosphorus and Potassium Contained in Poultry Litter for a No-till Corn and Soybean Rotation* - **J. H. Grove**
17. *Application of Unprocessed Urban Plant Debris to Farm Land* - **G. Kidder**, M. F. Weaver, D. O'Keefe, and R. W. Vories
18. *Use of Dairy Manure Effluent in a Rhizoma (Perennial) Peanut Based Cropping System for Nutrient Recovery and Water Quality Enhancement* - **E. C. French**, K. R. Woodard, D. A. Graetz, G. M. Prine, and H. H. (Jack) Van Horn
19. *Nematode Population Levels on Vegetable Crops Following Two Winter Cover Crops* - **Robert McSorley** and R. N. Gallaher (Poster will be on display at Green Acres Agronomy Research Field Laboratory)

Thursday, 26 June 1997

**Experiment Station and Farm Tours:
*Partnership in Production and Use of New Knowledge***

Locations: Green Acres Agronomy Research Field Laboratory, 12 miles west of Gainesville, Institute of Food and Agricultural Sciences, University of Florida, and farms in Alachua and Gilchrist Counties

Coordinator: Dr. Raymond N. Gallaher

7:00am Morning Refreshments (Conference Center Lobby)

7:30am Load Busses

7:40am Depart for Green Acres Agronomy Research Field Laboratory

8:00am Arrive Green Acres Agronomy Research Field Laboratory

8:10am Welcome - Dr. Richard L. Jones

8:15am Begin tours of research and demonstrations, Green Acres Agronomy Research Field Laboratory

Featured: Plant breeding for conservation tillage cropping systems-new varieties of oat, rye, red clover, crimson clover, soybean, and subtropical corn hybrids; Organic farming systems with use of yard waste compost, cover crops, organic sources of fertilizers, and conservation tillage planting of vegetables; Conservation tillage systems for summer row crops using best management practices for cover crop and weed control and nitrogen fertilization; Conservation tillage plantings of cotton, corn, soybean, etc.; Pest management in conservation tillage systems; Roundup ready crops under conservation tillage management; Chemical weed control management.

Green Acres Presentations

No-Tillage Corn Performance Trials Planted into Chemically Killed Rye - R. L. Stanley and R. N. Gallaher

No-Tillage Forage Sorghum Performance Trial into Rye; and High Population No-tillage Drilled Corn for Grazing - C. G. Chambliss, W. Webb, R. (Bob) Palmer, D. R. Rau, and R. N. Gallaher

No-Tillage Tobacco Fertilizer N and Weed Control Trials - E. B. Whitty and R. N. Gallaher

Weed Management and No-Tillage Roundup-Ready Soybean and Cotton, Liberty Link Corn, and No-Tillage Peanut (Discussion and demonstration on latest spray application technology by W. L. Currey and T. Paulk) - B. J. Brecke, W. H. Currey, T. Paulk, and R. N. Gallaher

No-Tillage Long-Juvenile Trait Soybean Double-Cropped After Florida's Newly Released Oat and Rye Varieties - R. D. Bamett, Ann R. Blount, and R. N. Gallaher

No-Tillage Roundup-Ready Cotton Varieties Following Winter Cover Crops of Wheat, Rye, Oat, and Lupin - D. L. Wright and R. N. Gallaher

Demonstration of No-Tillage and Weed Control for Corn Following Florida's Newly Released Crimson Clover and Red Clover Varieties, and Discussion on New Peanut Cultivars for Animal Grazing - K. H. Quesenberry, D. S. Wofford, and R. N. Gallaher

Best Management Practices (Tillage and N Fertilization) for Florida's Experimental Subtropical Corn vs. Commercial Tropical Corn Following Winter Cover Crops of Vetch, Rye, Lupin, and Crimson Clover Rotated into Old Long Term Winter Cover Crop Planted Areas four areas - R. N. Gallaher, R. McSorley, and P. Hildebrand

Nematode Population Levels on Vegetable Crops Following Two Winter Cover Crops - R. McSorley and R. N. Gallaher

Organic Versus Chemical No-tillage Sweet Corn into Crimson Clover - R. N. Gallaher and R. McSorley

No-Tillage Sweet Corn Following Long-Term Yard Waste Compost Treatments. Area is Planted to Chemically Killed Winter Lupin Prior to Planting Sweet Corn - R. N. Gallaher and R. McSorley

No-Tillage Vegetables (Okra, Bushbean, Cowpea, Squash) into Rye - R. N. Gallaher, C.E. Wieland, B.L. Wade, R. McSorley, C. Greg Davis, and R. Morse

Weed Control in No-Tillage Sweet Corn into Rye (21 years of continuous no-tillage in this area) - S. L. Brooks, Gary Kennedy, and R. N. Gallaher

Sweet Corn Hybrid and Carbofuran Experiment Under No-Tillage into Crop of Lupin - C. G. Davis, O. Dunn, and R. N. Gallaher

Tillage, N Fertility, Weed Control, and Variety on Yield of Roundup-Ready Cotton (21 years of continuous no-tillage) - R. N. Gallaher and D. L. Wright

11:45am ***Fish Fry at Green Acres Agronomy Field Research Laboratory***

1:00pm ***Busses Depart for Farm Tours***

2:00pm ***Arrive at North Florida Holstein, Gilchrist County***

Featured: On-farm demonstrations, research and practices using perennial peanut, conservation tillage, and use of dairy waste

2:45pm ***Depart North Florida Holstein, Gilchrist County***

3:00pm ***Arrive at Mr. Craig Watson's Farm***

Featured: On-farm use of untreated yard trash in a commercial organic farming operation.

3:30pm ***Depart Mr. Craig Watson's Farm***

4:00pm ***Arrive at Haufler Brothers Farm***

Featured: Residual impact of application of large quantities of yard waste compost for improved soil quality and corn silage yield

4:20pm ***Depart Haufler Brothers Farm***

4:30pm ***Arrive at Haufler Brothers Silage Storage Location***

Featured: Farm crops and equipment for growing and harvesting silage and bunker type silage storage facilities

5:00pm ***Depart! Haufler Brothers Silage Storage Location***

5:30pm ***Arrive Cecil B. Webb Livestock Pavilion*** for barbecue dinner prepared by Poultry Science Club, University of Florida. Entertainment by the *Crosswinds Band*.

7:30pm ***Depart for hotel and conference adjourns***

***We would like to acknowledge the following
for their participation and contributions to the farm tours:***

Green Acres tour and fish fry: Gordon Prine, Ken Quesenberry, Ben Whitty, Carrol Chambliss, David Wofford, Barry Brecke, David Wright, Ronald Bamett, Robert Stanley, Peter Hildebrand, Cindy Wieland, Jorge Widmann, Brett Wade, ~~Stuart~~ Rymph, Roy and Myrt Arnett, W.H. Currey, Greg Davis, **Gary** Kennedy, Shane Brooks, Ord Dunn, Robert Palmer, Donald Rau, Gary Gibson, Larry Hawf, Elzie McCord, Larry Spooner, Drew Rush, Roebie Burriss, Todd Faulk, Ken Muzyk, Ty Paulk, Kent Taylor, Howard Palmer, Jim Chichester, Walter Davis, Leroy **Polk**, James J. (Jim) Ferfuson, Richard A. (Rick) Hill, Marty Mesh, David L. Moon, Harry C. Wood, Eddie L. (Pete) Brown, Jr., Ronald T. (Tom) Cutler, Carl Sheffield and Lawrence Crawford.

North Florida Holstein: Donald Bennick, Marvin Weaver, Edwin French, Kenny Woodard, G.M. Prine, Donald Graetz, and Harold (Jack) Van Horn, Jr.

Mr. Craig Watson's Farm: Craig Watson, Marvin Weaver, Gerald Kidder, D. O'Keefe, and R.W. Vories

Haufler Brothers Farm, Equipment and Silage Storage: Dale Haufler, Donald Haufler, Raymond Gallaher, Robert McSorley, William Brown, and Peter Hildebrand

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John M. Thompson, Mississippi State University, Mississippi State, MS
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D. D. Tyler, Institute of Agriculture, University of Tennessee, Jackson and Knoxville, TN

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Continuing Education Units

Continuing Education Units (CEUs) for Florida State Pesticide Applicator License re-certification and Certified Crop Advisers (CCA) certification will be offered for attending this conference. If you would like approval for CEUs, **you** must present your pesticide licenses and/or **your CCA** certification number along with your social security number at the conference registration area.

Florida State Pesticide Applicator CEUs

Participants who attend the conference may earn up to a total of **9** CEUs to apply towards their Florida State Pesticide Applicator License re-certification. The CEUs available are listed below. Please note that participants cannot exceed the daily total of CEUs approved.

Tuesday, **24** June (Total CEUs approved - **4**)

Private Applicator Agricultural **4**
 AgRowCrop **4**

Wednesday, **25** June (Total CEUs approved - **2**)

Private Applicator Agricultural **2**
 AgRowCrop **2**
 Demo/Research **2**

Thursday, **26** June (Total approved - **3**)

(**note:** signature for approval will be given upon completion of the tours)

Private Applicator Agricultural **3**
 AgRowCrop **3**
 Demo/Research **3**

Ms. Pam Houmire, a representative from the Florida Department of Agriculture and Consumer Services will be available at the conference registration area from 11:00 am-5:00 pm, Tuesday, June **24**, and from 8:00 am-5:00 pm, Wednesday, June 25. She will approve CEUs and be able to answer questions regarding CEUs and licensing. Should you need assistance prior to the conference, you may contact her at **904-488-6838**.

Certified Crop Advisers CEUs

Participants may earn up to a total of 14 CEUs to apply towards their Certified Crop Advisers (CCA) certification. CCA CEUs are applicable for the Southeastern states of **Florida, Georgia, Alabama, South Carolina, and North Carolina**. Participants will be required to sign out at the end of each day in order to receive the CEUs requested. The CEUs available are listed below. Please note that participants cannot exceed the daily total of CEUs approved. Should you have any questions regarding CCA CEUs, you may contact Andy LaVigne, Executive Director of the Florida Fertilizer and Agrichemical Association at (941) 293-4827.

Tuesday, 24 June (Total approved - 2.5)

Soil Fertility	.5
Soil and Water	.5
Crop Production	1.5

Wednesday, 25 June (Total approved - 6.0)

Soil Fertility	.5
Pest Management	1.0
Crop Production	4.5

Thursday, 26 June (Total approved - 5.5)

Pest Management	1.5
Crop Production	4.0

Conference Registration

The registration fee includes a proceedings, the Tuesday evening reception, Thursday's tour with a fish fry luncheon, the Thursday evening barbecue with entertainment, and daily refreshment breaks.

Regular Registration Fee	\$130.00
Student Registration Fee	\$40.00
Farmer Registration Fee	\$25.00

To register, complete and return the enclosed registration form with payment. If you require additional information, contact the registration department at the Office of Conferences (352) 392-5930. Requests for refunds will be honored if written notice of cancellation is received **by** the Office of Conferences on or before June 1, 1997. A \$10.00 processing fee will be deducted from all refunds. *Sorry*, no refunds will be honored after June 1, 1997.

In compliance with ADA requirements, participants with special needs can be reasonably accommodated by contacting the Office of Conferences at least 10 working days prior to the conference. We can be reached by phone at (352) 392-5930, by **fax** at (352) 392-9734, or by calling 1-800-955-8771 (TDD).

Hotel Accommodations

The conference will be held at the Holiday Inn West located at 7417 NW 8th Avenue, Gainesville, FL 32605. A block of rooms has been reserved at the hotel for conference participants at a special rate of \$69 plus 9% ~~tax~~ for up to two people per room, \$73 plus 9% tax for three people per room and \$83 plus 9% tax for four people per room. For reservations, call the hotel's national number at 800-HOLIDAY or call directly at 1-800- 551-8206 or (352) 332-7500. **Be sure to state that you are with the Annual Conservation Tillage Conference when you call.** **Reservations should be made by June 1, 1997.** After this date, reservations and the special rate will be subject to availability.

A Very Special Thank You to Our Sponsors:

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